

11/21/2003

EXPRESS MAIL NO.: EV335857738US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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| Application of: | Yang et al. | Confirmation No.: | To be assigned |
| Application No.: | To be assigned (Divisional of U.S. Patent Application No. 10/105,319) | Art Unit: | To be assigned |
| Filed: | September 25, 2003 | Examiner: | To be assigned |
| For: | MUTATED PENICILLIN EXPANDASE AND PROCESS FOR PREPARING 7-ADCA USING THE SAME | Attorney Docket No.: | 6653-020-999 |

**INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. § 1.56 and § 1.97**

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Arlington, VA 22313-1450

Sir:

In accordance with the duty of disclosure imposed by 37 C.F.R. § 1.56 to inform the Patent and Trademark Office of all references coming to the attention of each individual associated with the filing or prosecution of the subject application, which are or may be material to the patentability of any claim of the application, Attorneys for Applicants hereby direct the Examiner's attention to references AA-AK listed on the attached revised PTO-1449 Form.

Pursuant to 37 C.F.R. § 1.98(d), a copy of references AA-AK is not enclosed. References AA-AK have previously been submitted to or cited by the Patent and Trademark Office in prior U.S. Patent Application No. 10/105,319 filed March 26, 2002, to which this application claims priority under 35 U.S.C. § 120. Accordingly, the Examiner's attention is directed to U.S. Patent Application No. 10/105,319 for copies of references AA-AK.

Applicants respectfully request that the Examiner review the foregoing references and that the references be made of record in the file history of the application.

Pursuant to 37 CFR § 1.97(b), since this Information Disclosure Statement is being filed before the mailing of a first Office Action on the merits, it is believed that no fee is due in connection herewith. However, should the Patent and Trademark Office determine otherwise, please charge the required fee to Pennie & Edmonds LLP Deposit Account No. 16-1150.

Respectfully submitted,

Date: November 21, 2003

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| <u>Geraldine F. Baldwin</u> | <u>31,232</u> |
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Enclosure



3-26-04

EXPRESS MAIL NO.: EV335859328US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Yang et al. Confirmation No.: 3200
Application No.: 10/719,237 Art Unit: 1652
Filed: November 21, 2003 Examiner: To be assigned
For: MUTATED PENICILLIN
EXPANDASE AND PROCESS
FOR PREPARING 7-ADCA
USING THE SAME Attorney Docket No.: 6653-020-999

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

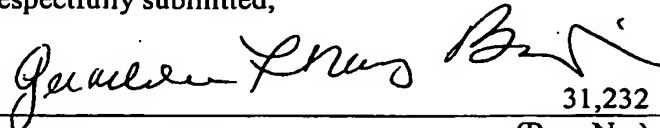
In accordance with the continuing duty of disclosure imposed by 37 C.F.R. § 1.56 and § 1.97 to inform the Patent Office of all references coming to the attention of each individual associated with the filing or prosecution of the subject application, which are or may be related to patentability of any claim of the application, Attorneys for Applicant hereby direct the Examiner's attention to references AL-AR listed on the accompanying List of References Cited by Applicants. A copy of references AL-AR is submitted herewith.

Applicant respectfully requests that the Examiner review the foregoing references and that the references be made of record in the file history of the application.

Pursuant to 37 C.F.R. § 1.97(b), since this Supplemental Information Disclosure Statement is being filed before the mailing of a first Office Action on the merits, it is believed that no fee is due in connection herewith. However, should the Patent Office determine otherwise, please charge the required fee to Jones Day Deposit Account No. 503013.

Respectfully submitted,

Date: March 25, 2004


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ATTY DOCKET NO.

6653-020-999

APPLICATION NO

10/719,237

LIST OF REFERENCES CITED BY APPLICANTS

(Use several sheets if necessary)

APPLICANT

Yang et al.

FILING DATE

November 21, 2003

GROUP

1652

U.S. PATENT DOCUMENTS

| *EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
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FOREIGN PATENT DOCUMENTS

| | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION |
|----|------------------|----------|---------|-------|----------|-------------|
| | | | | | | YES NO |
| 85 | AL WO 97/20053 ✓ | 06/05/97 | PCT | | | |
| ↓ | AM WO 98/02551 ✓ | 01/22/98 | PCT | | | |
| | AN WO 99/33994 ✓ | 07/08/99 | PCT | | | |
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

| | | |
|----|----|---|
| 85 | AO | Cho H. et al., <i>Proc. Natl. Acad. Sci. USA</i> , 95: 11544-11548 (1998) ✓ |
| ↓ | AP | Kovacevic S. et al., <i>Journal of Bacteriology</i> , 171: 754-760 (1989) ✓ |
| | AQ | Lee H.J. et al., <i>Biochemical and Biophysical Research Communications</i> , 292: 66-70 (2002) ✓ |
| | AR | Lee H.J. et al., <i>Biochemical and Biophysical Research Communications</i> , 267: 445-448 (2000) ✓ |
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EXAMINER

Swope

DATE CONSIDERED

10/12/2005

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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| LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary) | ATTY DOCKET NO. 6653-020-999 | APPLICATION NO To be assigned |
| | APPLICANT Yang Yunn-Bor | |
| | FILING DATE Herewith | GROUP To be assigned |

U.S. PATENT DOCUMENTS

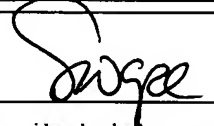
| *EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|----------------------|----|-----------------|----------|-------------------|-------|----------|-------------------------------|
| 85 | AA | 5,559,005 | 09/24/96 | Conder et al. | | | |
| | AB | 5,731,165 | 03/24/98 | Bovenberg et al. | | | |
| 7 | AC | 5,919,680 | 07/06/99 | Sutherland et al. | | | |
| | | | | | | | |

FOREIGN PATENT DOCUMENTS

| | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
|----|----|---------------------|----------|---------|-------|----------|-------------|----|
| | | | | | | | YES | NO |
| 85 | AD | EP 0 341 891 A1 | 11/15/89 | EPO | | | | |
| | AE | EP 0 366 354 A2, A3 | 05/02/90 | EPO | | | | |
| | AF | EP 0 453 047 A1 | 10/23/91 | EPO | | | | |
| 7 | AG | WO 01/85951 | 11/15/01 | PCT | | | | |
| | | | | | | | | |

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

| | | |
|----|----|--|
| 85 | AH | Chin et al., <i>Biochemical and Biophysical Research Communications</i> 287: 507-513 (2001). |
| | AI | Coque J. et al., <i>Mol Gen Genet.</i> 1993;236(2-3):453-8 |
| | AJ | Wei C.L. et al., <i>Appl Environ Microbiol.</i> 2003;69(4):2306-12 |
| 7 | AK | Wong E. et al., <i>Biochem Biophys Res Commun.</i> 2001;283(3):621-6 |
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| EXAMINER  | DATE CONSIDERED 9/18/2006 |
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